

**CITY OF CARLSBAD
CLASS SPECIFICATION**

JOB TITLE: **STREET ELECTRICIAN
SENIOR STREET ELECTRICIAN**

DEPARTMENT: **PUBLIC WORKS**

Under general supervision, to perform a variety of semi-skilled to skilled work involving electrical installation, maintenance, repair and testing of street lights, traffic signals, and related equipment; and to perform related work as assigned.

DISTINGUISHING CHARACTERISTICS:

Street Electrician is the journey level class in the electrical street maintenance series. Positions in the class normally perform semi-skilled to skilled electrical maintenance installation and repair work on street lighting and traffic signal equipment.

Senior Street Electrician is the advanced and lead level in the electrical street maintenance series. This incumbent is expected to perform the most skilled electrical work in traffic signal maintenance and serves as the primary coordinator of the street lighting/traffic function related to the liaison with contracting services, traffic engineering and other City departments.

KEY RESPONSIBILITIES:

Perform electrical work involving the installation, maintenance, and repair of street lights, traffic signal systems and related equipment and systems.

Inspect, diagnose and determine extent of necessary repair of traffic signal systems for referral to contractor or in-house repair.

Answer emergency calls and perform repairs on street lighting equipment.

Receive and follow-up on citizen complaints to resolve or correct problems.

Read blueprints, plans, specifications and schematic diagrams in order to troubleshoot problems and to inspect construction projects to ensure compliance.

Coordinate underground service alert and electrical mark-outs for various departments and agencies related to street lighting and traffic signal systems.

Install, maintain, and repair electric motors and built-in systems.

Test signal heads and bells, flashers, clocks, and coils.

Maintain and repair electrical motors and pumps.

Lay conduit and pull wire for new street lighting.

Review and inspect street lighting plans and construction.

Requisition and maintain materials and supplies.

Maintain records of work performed and supplies used.

Periodically install and service decorative displays involving electrical circuits.

Performs other electrical work as time permits in assistance to other City departments.

Senior Electrician:

Administer the traffic signal maintenance agreement, including coordination of activities of the designated contractor in the installation, repair and maintenance of the traffic signal systems, inspecting the finished work, and monitoring of field activities and work records.

Serve as the traffic and street lighting liaison to other City departments in coordinating current and future projects in the City.

Coordinate with the Traffic Engineer on traffic signal timings and adjustments as necessary.

Assist the Supervisor in preparing the department budget, preparing specifications for contract work and preparing simple reports related to street lighting/traffic activities.

QUALIFICATIONS:

To perform a job in this classification, an individual must be able to perform the essential duties as generally described in the specification. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential duties in a specific job. The requirements listed below are representative of the knowledge, skill and/or ability required.

Knowledge of:

Principles, practices and techniques of electrical repair of street lighting and traffic signal maintenance.

Methods, materials and tools used in the electrical trade.

Electrical codes, regulations, standards and guidelines.

Construction, installation and maintenance of electrical apparatus and equipment.
General construction methods, practices and equipment.

Safe work practices and procedures.

Senior Electrician: (In addition to above:)

Specialized traffic signal maintenance and repair techniques.

Ability to:

Diagnose, repair and maintain electrical systems related to street lighting and traffic signals and other related equipment.

Use and maintain electrical tools and equipment skillfully and safely.

Follow safe work practices and environment, including working in traffic and with electrical currents.

Exercise independent judgment and initiative without supervision.

Understand and follow oral and written instructions.

Establish and maintain cooperative relationships with those contacted in the course of work.

Communicate effectively orally and in writing.

Read and interpret electrical plans, specifications and schematics.

Prepare records and reports.

Estimate materials and equipment necessary to complete assigned jobs.

Senior Electrician: (In addition to above:)

Troubleshoot and repair most complex or specialized electrical problems.

Inspect contracted work for conformity to specifications.

Coordinate work activities with other departments and agencies. Train and supervise performance of less skilled staff.

EXPERIENCE AND EDUCATION:

Any combination equivalent to experience and education that would likely provide the required knowledge and abilities would be qualifying. A typical way to obtain the knowledge and abilities would be:

Electrician: one year of Journey-level electrical experience.

Senior Electrician: two years of Journey level experience with demonstrated proficiency and specialized training and certification in signal technician work.

SPECIAL REQUIREMENTS:

Possession of a valid and appropriate level California Driver's License.

PHYSICAL REQUIREMENTS AND ENVIRONMENTAL SETTING:

Incumbents must be able to climb ladders, lift, carry and manipulate moderate to heavy materials and equipment at site locations and up ladders to maintain and repair street lights; drive to site locations and operate commercial vehicles in the course of work; distinguish colors to replace traffic lights; work in high places to replace street lights; work in traffic and on streets; work outdoors in all types of weather; and work with electrical currents.

General Employee

Salary Schedule

[General Employees Salary Ranges](#)

Benefits

[City of Carlsbad General Employee Benefits](#)